

**WHAT IS CLAIMED IS:**

1. A biopsy device suitable for use with a magnetic resonance imaging machine, said device comprising an elongated needle for receiving tissue therethrough, the needle comprising:

a distal needle segment comprising a tissue receiving port, the distal needle segment formed of a first material that does not interfere with MRI imaging of a portion of the distal needle segment associated with the tissue receiving port;

a proximal needle segment disposed proximally of the tissue receiving port, the proximal needle segment formed at least in part of a second material different from said first material.

2. The device of Claim 1 wherein the first material is non-metallic.
3. The device of Claim 1 wherein the first material is non-magnetic.
4. The device of Claim 1 wherein the first material comprises a liquid crystal polymer.
5. The device of Claim 1 wherein the first material has a melt flow index of at least about 15 grams/minute.
6. The device of Claim 1 wherein the second material comprises a metal.
7. The device of Claim 1 wherein the second material is non-magnetic.
8. The device of Claim 1 wherein the second material is selected from the group comprising aluminum, aluminum alloys, stainless steel, titanium, titanium alloys, and combinations thereof.
9. The device of Claim 1 further comprising a distal piercing tip disposed distal of the tissue receiving port.

10. The device of Claim 9 wherein the distal piercing tip comprises a non-metallic material.
11. The device of Claim 9 wherein the distal piercing tip comprises a material selected from the group comprising ceramics and glasses.
12. The device of Claim 1 wherein the proximal needle segment and the distal needle segment provide a continuous, smooth cutter lumen.
13. The device of Claim 1 wherein the proximal needle segment and the distal needle segment provide a continuous vacuum lumen.
14. The device of Claim 13 wherein the needle comprises at least passage extending from the vacuum lumen to an outer surface of the needle.
15. The device of Claim 14 wherein the distal needle segment comprises a plurality of passages extending from the vacuum lumen to the outer surface of the needle.
16. A biopsy device suitable for use with a magnetic resonance imaging machine, said device comprising:

a distal needle segment comprising a tissue receiving port communicating with a cutter lumen, the distal needle segment formed of a first non-metallic material;

a proximal needle segment formed at least in part of a metal, the proximal needle segment providing at least a portion of the cutter lumen, and wherein said metal is spaced proximally at least about 0.5 inch from a proximal edge of said tissue receiving port.

17. The device of Claim 19 wherein said metal is spaced between about 0.5 inch and about 2.5 inches from a proximal edge of said tissue receiving port.

18. The device of Claim 19 wherein said metal is spaced between about 0.5 inch and about 1.5 inch from a proximal edge of said tissue receiving port.
19. A biopsy device suitable for use with a magnetic resonance imaging machine, said device comprising an elongated needle for receiving tissue therethrough, the needle comprising:
  - a distal needle segment formed of a non-metallic material and having a lateral tissue receiving port communicating with a distal cutter lumen segment;
  - and
  - a metallic proximal needle segment disposed proximally of the tissue receiving port, wherein the metallic proximal needle segment provides a proximal cutter lumen segment communicating with the distal cutter lumen segment.
20. The biopsy device of Claim 20 wherein the distal needle segment comprises at least a portion of a vacuum lumen.